

Cut-Tools by TruckleSoft

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Introduction

Overview

Cut-Tools is a handful of commands to aid in the creation of geometry for 2D Profile cutting using cutter / plotters, CNC routers and lasers. We hope that these tools can be useful for your business.

- [Supported CAD Platforms](#)
 - [User Interface](#)
 - [Summary](#)
-

Supported CAD Platforms

The tools can be installed in three leading CAD software environments:

- AutoCAD
 - BricsCAD
 - ZWCAD
-

User Interface

Are you a CAD operator who prefers to use the **menu**? Or **ribbon**? Or **command line**? You will be pleased to know that Cut-Tools comes complete with a rich user interface.

- It has a custom [ribbon](#):

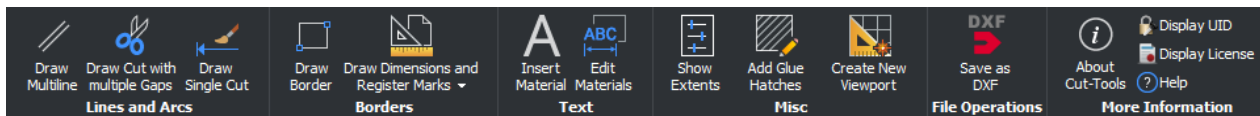


Figure 1: Custom ribbon with access to most of the tools

- It has a custom [menu](#):

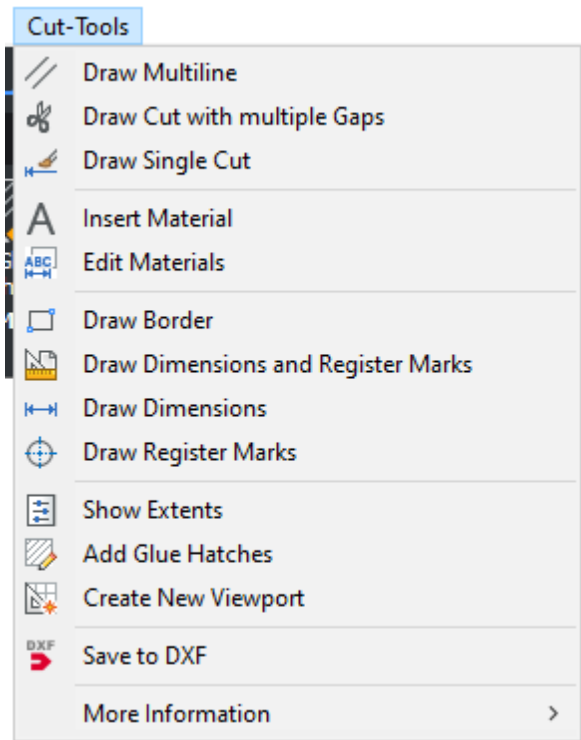
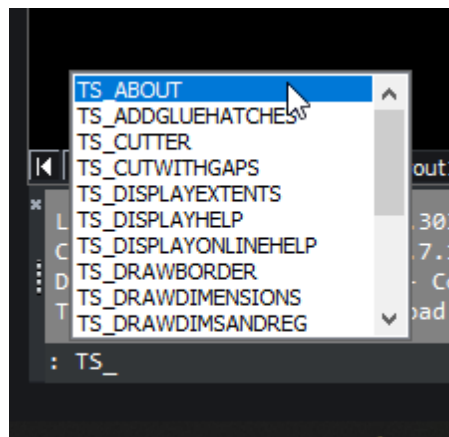


Figure 2: Custom Menu

- Tools can be activated using the **command line**:



Summary

- Could these tools be tweaked with new options to fit your company requirements?
- Could an additional tool be developed to meet your specific needs?

If so, then please [Contact](#) TruckleSoft!

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Licensing

Licensing

You need to purchase a license if you want to keep using Cut-Tools after the trial period is over.

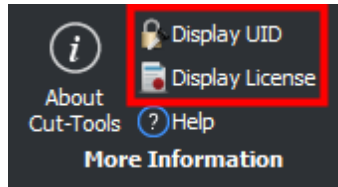


Figure 3: More Information ribbon panel

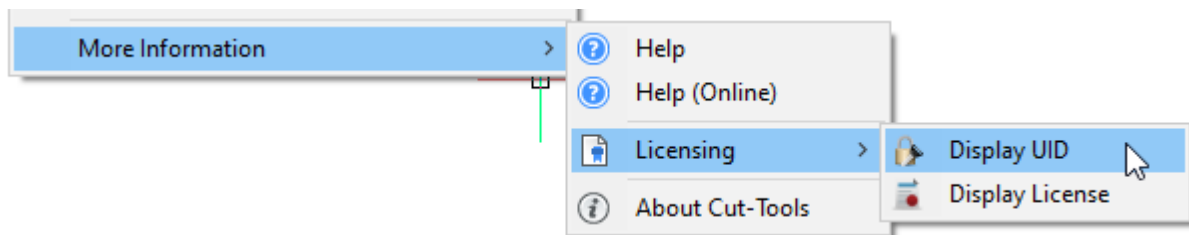


Figure 4: More Information submenu

How It Works

When you load Cut-Tools it automatically checks to see if there is a valid license. You will see one of two messages displayed in the command prompt area. Either:

- Your copy of Cut-Tools is not activated. Please run the command **TS_DISPLAYUID**.
- Your copy of Cut-Tools is activated.

```

Cut-Tools for BricsCAD v1.7.1.0 successfully loaded.
Developed by TruckleSoft - Copyright © 2014-2021.
Type 'TS_LoadRibbon' to load Cut-Tools ribbon if not already loaded.
Your copy of Cut-Tools is not activated. Please run the command TS_DISPLAYUID.
: Enter command
  
```

Figure 5: Sample command line output

Displaying License UID

Type the command **TS_DISPLAYUID** (or select it from the menu / ribbon) to display your *Unique ID* (referred to as *UID*) in a pop-up window:

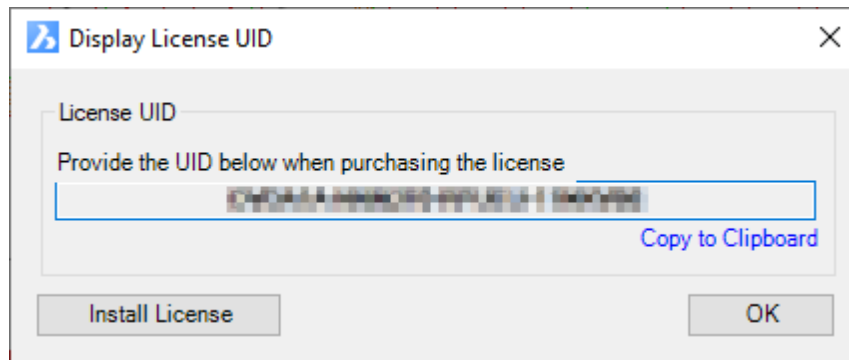


Figure 6: Displaying your UID

Copy the UID to the clipboard (either manually or by using the control on the window) and email this UID to TruckleSoft for your license to be activated. Note that the license UID will also display in your command window when you close the window.



It is important to keep a note of your activated UID because it is tied down to your *computer hardware*. So if you make changes to your hardware then your license will fail. In this case you will also need to supply your *old* UID along with the *new* for verification purposes. Please keep this in mind.

Installing the License

This step should be fairly straightforward:

1. We will **activate** your license for you and supply you with a **CutToolsUser.lic** file via email.
2. Run the **TS_DISPLAYUID** command again and press the **Install License** button and select the license file. You should see a confirmation message like this:

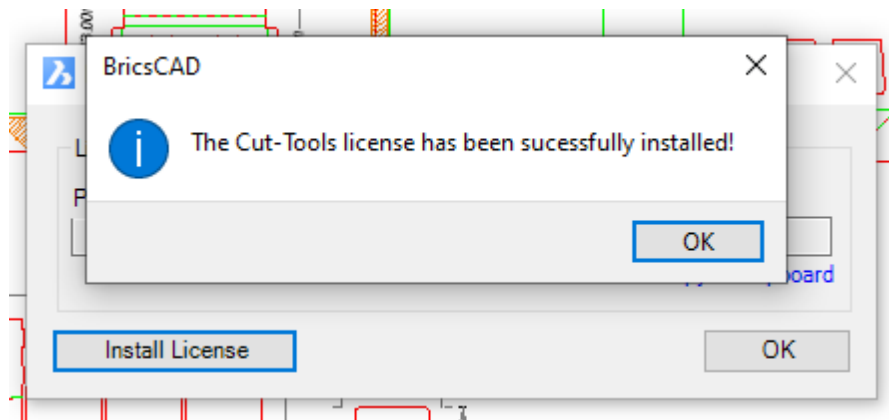
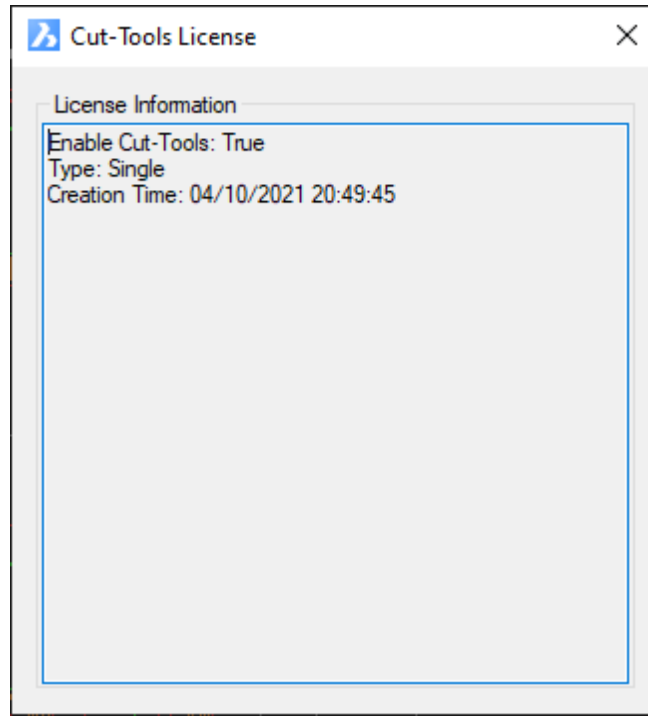


Figure 7: License installed confirmation message

Displaying your License Information

Type **TS_DISPLAYLICENSE** (or select it from the menu / ribbon) to display the information:



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Command Index

Command Index

Here is a complete list (A - Z) of all the commands that are available in Cut-Tools.

Command	Description
TS_ABOUT	Displays version information about Cut-Tools
TS_ADDGLUEHATCHES	Add front / reverse hatch objects to selected polylines
TS_CUTTER	Create multiline entities from arc / line entities
TS_CUTWITHGAPS	Creates a cut line / arc with the specified number of gaps
TS_DISPLAYEXTENTS	Displays the width and height of entities for the selection set
TS_DISPLAYHELP	Displays this help documentation.
TS_DISPLAYLICENSE	Displays the available license information in a popup window.
TS_DISPLAYONLINEHELP	Displays this help documentation using your internet browser
TS_DISPLAYUID	Displays the unique ID (UID) for Cut-Tools.
TS_DRAWBORDER	Create a border around a selected set of entities
TS_DRAWDIMENSIONS	Add dimensions to the selected rectangle.
TS_DRAWDIMSANDREG	Add dimensions and register marks to the selected rectangle.
TS_DRAWREGISTRATIONS	Add registration marks to the selected rectangle.
TS_EDITMATERIALS	Manage the Material Groups database.
TS_INSERTCUT	Draw a single cut line with the specified length
TS_INSERTMATERIAL	Insert predefined material text based on user properties
TS_LOADRIBBON	Loads the Cut-Tools menu and ribbon.
TS_NEWVP	Creates a new layout with 1:1 viewport for your selected entities

Command	Description
TS_SAVEASDXF	Save selected entities to DXF and optionally rotate / mirror with new 0,0,0 origin.
TS_UNLOADRIBBON	Unloads the Cut-Tools menu and ribbon.

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Load Menu and Ribbon

TS_LOADRIBBON

Cut-Tools includes a dedicated **menu** and **ribbon** which includes all available tools. These can be added to your user interface by typing the command **TS_LOADRIBBON** in the command prompt window.

Ribbon

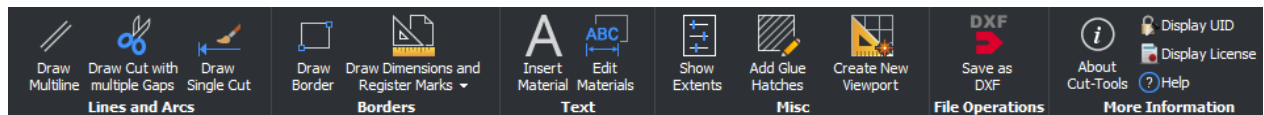


Figure 8: Hover the mouse over each tool on the ribbon to learn more.

Menu

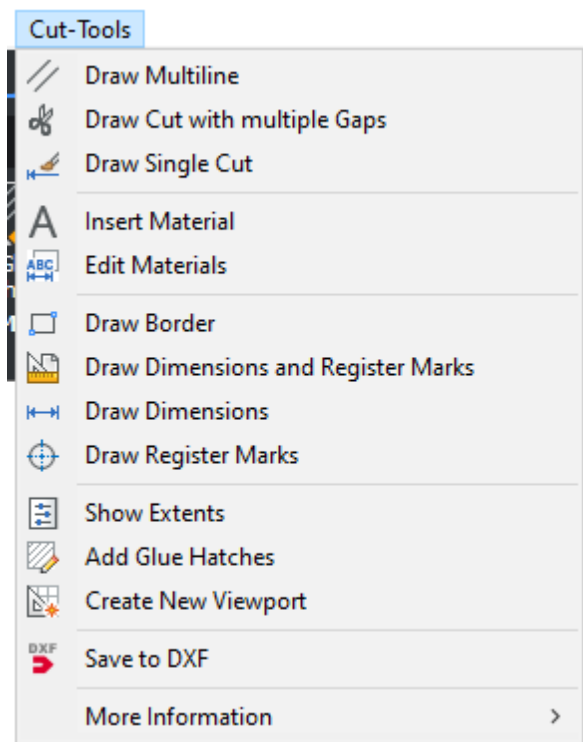


Figure 9: Custom Menu

Summary

Cut-Tools includes a rich **user interface** and you can access the available tools in one of three ways:

1. Command prompt window
2. Menu
3. Ribbon

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Unload Menu and Ribbon

TS_UNLOADRIBBON

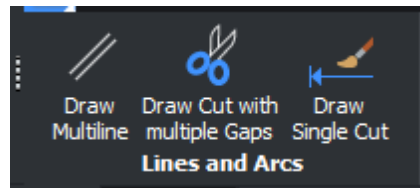
You can unload the **menu** and **ribbon** from your user interface by typing the command **TS_UNLOADRIBBON** in your command prompt window.

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Lines and Arcs Ribbon Panel



Available Tools

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Draw Cut with multiple Gaps

TS_CUTWITHGAPS

Creates a cut line / arc with the specified number of gaps.



This tool creates **ARC** and **LINE** entities.

Overview

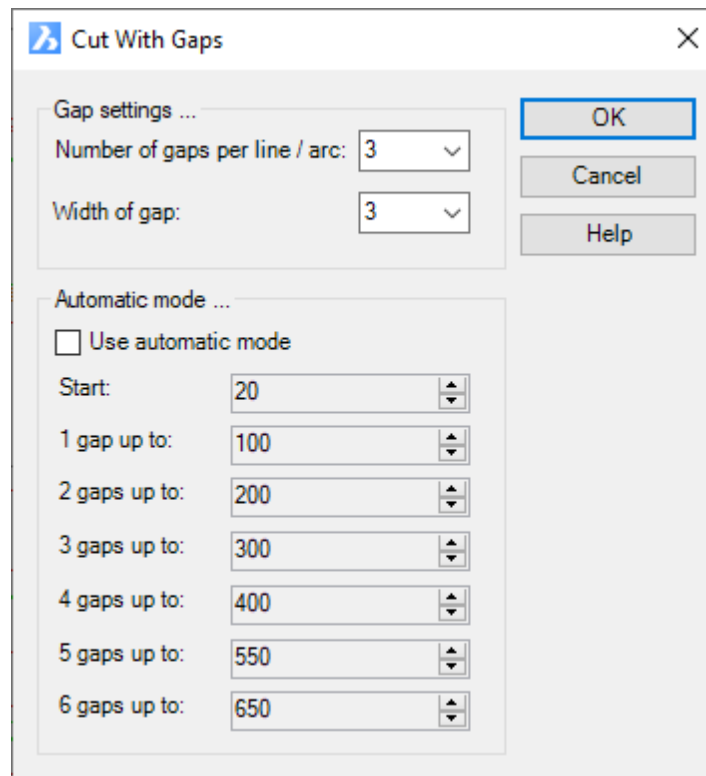


Figure 10: Draw Cut with Gaps Dialog

Setting	Description
Number of gaps per line / arc	Use the drop-down list to select the number of required gaps. The available options are 1 to 10. You can also type in a new value.
Width of gap	Use the drop-down list to select the width of the gaps. The available options are 1 to 10. You can also type in a new value.
Use automatic mode	Set this option if you would like to make use of the automatic mode . Read the following for more information.
Start	Use the remaining settings to configure how the automatic

Setting	Description
1 - 6 gaps up to	mode will work. You can predetermine how many gaps you would like inserted for a given length.

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Draw Multiline

TS_CUTTER

You use this tool to create a multi-line line with a cut / crease / score segments.



This tool creates **LINE** entities.

Overview

Figure 11: Draw Multiline Dialog

Select Line Type


Use this set of options to specify the **type of line** you want to create.



Setting	Description
Line Type	<p>The following line types are supported:</p> <ul style="list-style-type: none"> • <i>Crease / Score</i> • <i>Cut / Crease</i> • <i>Cut / Score</i> • <i>Perforations</i>
Rule Size	<p>There are several rule sizes that you can select from:</p> <ul style="list-style-type: none"> • 3 x 3 • 6 x 6

Setting	Description
	<ul style="list-style-type: none"> • 9 x 9 • 10 x 10 • 12 x 12 • 15 x 15 • 18 x 18 • 22 x 22 • 25 x 25 • 30 x 30
Cut Length	Specify the <i>length</i> each cut segment.
Crease Length	Specify the <i>length</i> each crease segment.

Start / End Segments

Use this set of options to specify how the actual line segments are created.

Setting	Description
Start Segment Type	Use the drop-down list to specify the type of the first segment. Available choices are: <ul style="list-style-type: none"> • <i>Cut</i> • <i>Create</i>
End Segment Type	Use the drop-down list to specify the type of the last segment. Available choices are: <ul style="list-style-type: none"> • <i>Cut</i> • <i>Create</i>
Minimum Segment Length	Specify the <i>minimum length</i> for each segment. <div style="background-color: green; color: white; padding: 5px; margin-top: 10px;">  This setting does not apply to the <i>first</i> segment. </div>
First Segment Length	Specify the <i>length</i> of the first segment.
Make equal length at each end	When this setting is used the command will take the combined length of the first and last segments and then make them equal by dividing the combined length by 2. Here is an example by way of explanation:

Setting	Description
	<ul style="list-style-type: none"> • Start segment is 6 units long. • End segment is 10 units long. • The combined length of both segments is 16 units. • Therefore, the length of both segments is adjust to 8 (half of 16). <div style="background-color: #00b050; color: white; padding: 5px; margin-top: 10px;">  This setting overrides the <i>First Segment Length</i> setting. </div>
Reverse Line	<p>When this setting is used the command will reverse the <i>start point / end point</i> of each LINE in the selection set.</p> <div style="background-color: #00b050; color: white; padding: 5px; margin-top: 10px;">  This setting does not apply to selected <i>ARC</i> entities. </div>

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Draw Single Cut

TS_INSERTCUT

Draw a single cut line with the specified length.



This tool creates **LINE** entities.

Overview

- The following pop-up window is displayed when you start the command, asking you to specify the **length** of the cut line:

Length

Specify length of Cut:

10

OK

Cancel

- Next, you select the **LINE** entity to modify.
- Finally, you **snap** to where you would like the CUT LINE inserted.



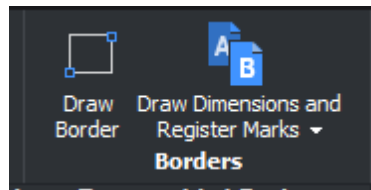
The point snapped to will become the **mid-point** of the new CUT LINE. And the remaining segments of the *selected* LINE are put on layer **Crease**.

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Borders Ribbon Panel



Available Tools

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- [Draw Dimensions and Register Marks](#)
- [Draw Dimensions](#)
- [Draw Registration Marks](#)

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Draw Border

TS_DRAWBORDER

Create a border around a selected set of entities



The border is created on **layer 0** as a **LWPOLYLINE**.

Overview

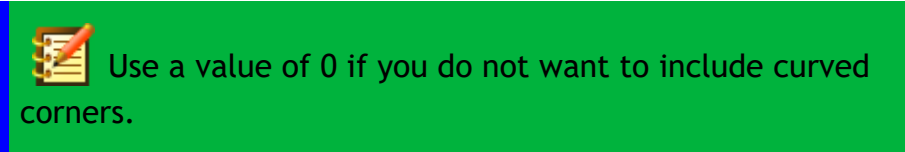
Figure 12: Draw Border Dialog

Selection Set Information

Setting	Description
Width	Displays the width of the selected entities. This value is <i>read-only</i> .
Height	Displays the height of the selected entities. This value is <i>read-only</i> .

Border

Setting	Description
Type of Border	<p>The following border types are supported:</p> <ul style="list-style-type: none"> • <i>Equal Margins</i> (this enables the All Margins setting) • <i>Individual Margins</i> (this enables the Left / Right / Top / Bottom settings)

Setting	Description
	<ul style="list-style-type: none"> • <i>Shrink to Fit</i> • <i>Align to Bottom</i> (this enables the Bottom settings)
Radius	<p>Specify the size of the radius you would like to use for the corners of the border.</p> 
Width	Specify the width for the new border. Any <i>margin</i> values will be <i>added</i> to this value.
Height	Specify the height for the new border. Any <i>margin</i> values will be <i>added</i> to this value.
Copy Selection Set Sizes	Press this button to <i>reset</i> the width and height to that of the <i>original selection set</i> .

Margins

Setting	Description
All Margins	Specify the width you would like to use for <i>all margins</i> .
Left	Specify the width you would like to use for <i>the left margin</i> .
Right	Specify the width you would like to use for <i>the right margin</i> .
Top	Specify the width you would like to use for <i>the top margin</i> .
Bottom	Specify the width you would like to use for <i>the bottom margin</i> .

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Draw Dimensions

TS_DRAWDIMENSIONS

Add dimensions to the selected rectangle.

Overview

- Select the entities (or bounding rectangle entity)
- *Dimensions* are added. Example:

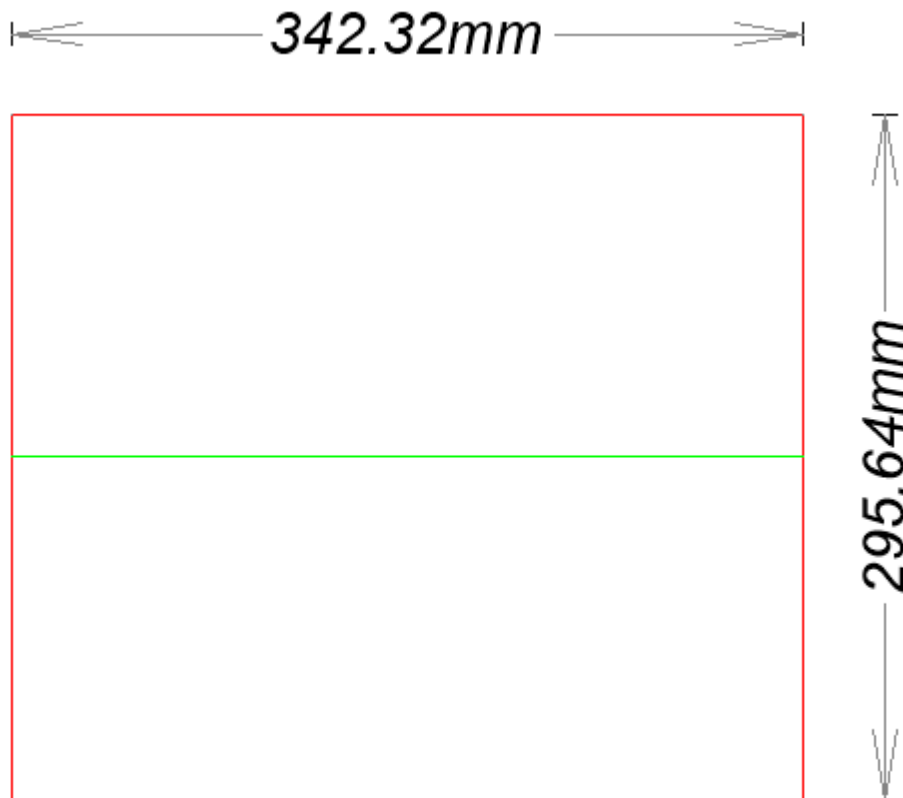


Figure 13: Example of drawing Dimensions



The *Dimensions* are created using the current dimension style (DIMSTYLE) on the layer **Dimensions** (colour 252).

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Draw Dimensions and Register Marks

TS_DRAWDIMSANDREG

Add dimensions and register marks to the selected rectangle. This command is a combination of these to commands:

- [Draw Dimensions](#)
 - [Draw Registration Marks](#)
-

Overview

- Select the entities (or bounding rectangle entity)
- *Dimensions* and *Registration Marks* are added. Example:

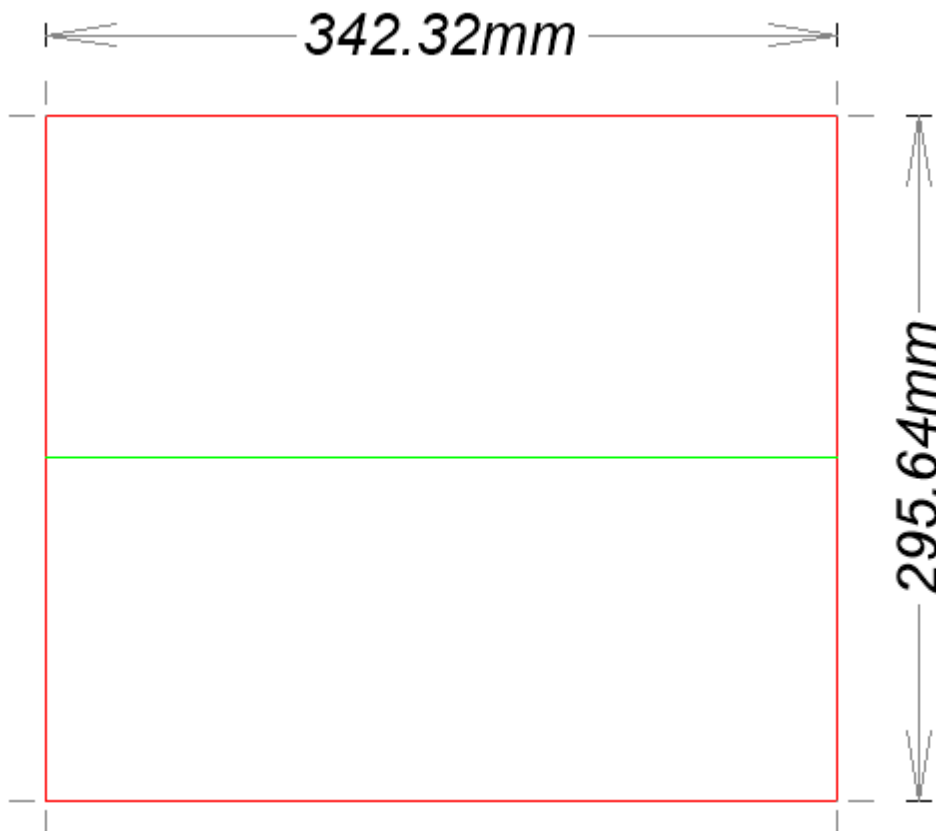


Figure 14: Example of Drawing Dimensions and Registration Marks



The *Dimensions* are created using the current dimension style (DIMSTYLE) on the layer **Dimensions** (colour 252).



The *Registration Marks* are created as **LINE** entities on the layer **Register**

(colour 254).

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Draw Registration Marks

TS_DRAWREGISTRATIONS

Add registration marks to the selected rectangle.

Overview

- Select the entities (or bounding rectangle entity)
- *Registration Marks* are added. Example:

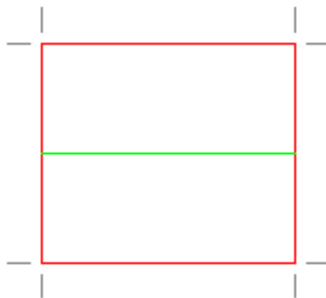


Figure 15: Example of drawing Registration Marks



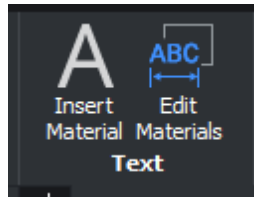
The *Registration Marks* are created as **LINE** entities on the layer **Register** (colour 254).

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Text Ribbon Panel



Available Tools

- [Insert Material](#)
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Edit Materials

TS_EDITMATERIALS

Use this command to make changes to the Materials Database.

Overview

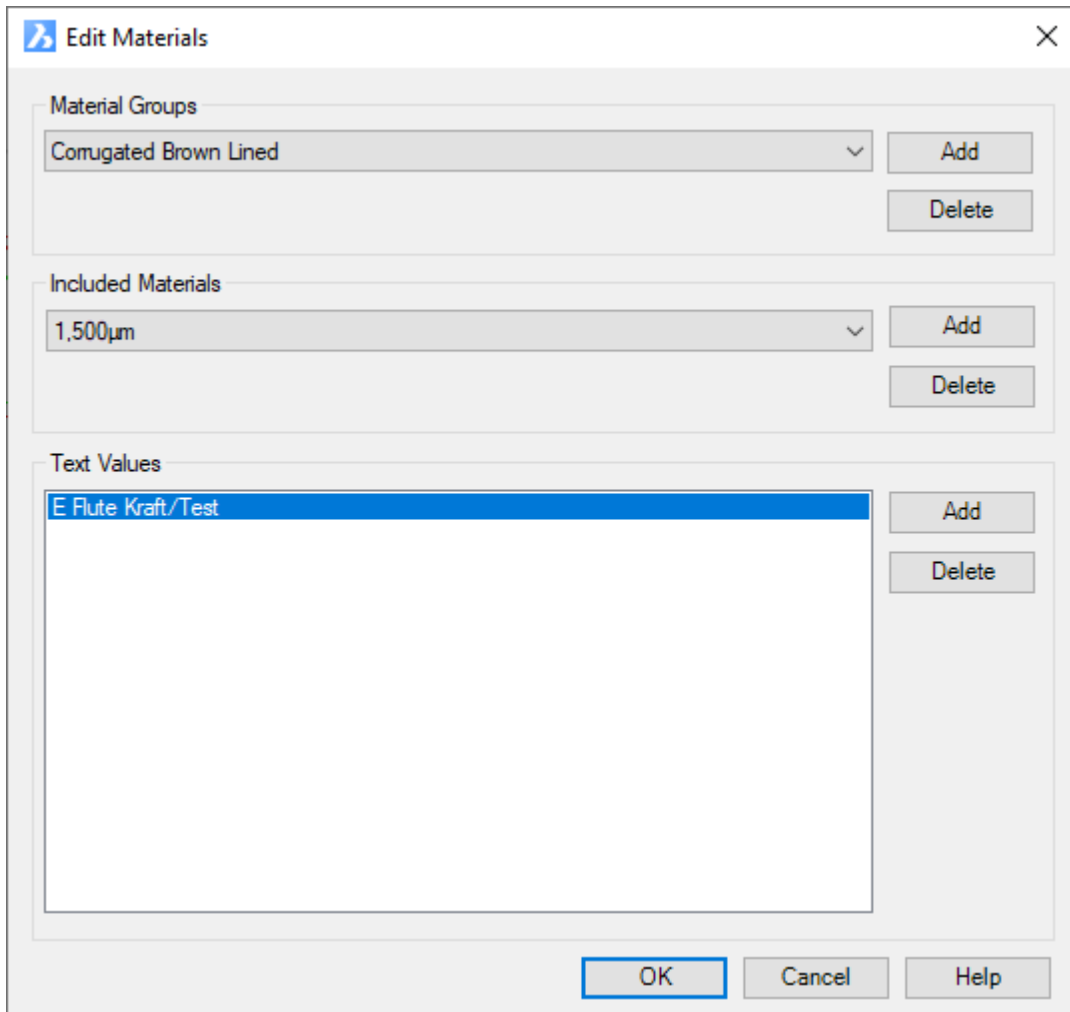





Figure 16: Edit Materials Dialog

Setting	Description
Material Groups	<p>Displays a drop-down-list of <i>material groups</i>.</p> <ul style="list-style-type: none"> Press Add to add a new <i>material group</i> to the database.

Setting	Description
	<div data-bbox="598 248 1310 555" data-label="Image"> </div> <p data-bbox="754 568 1161 607">Figure 17: Popup Add Dialog</p> <div data-bbox="501 622 1410 775" data-label="Text" style="background-color: #00b050; color: white; padding: 5px;">  You are not allowed to duplicate an existing <i>material group</i>. </div> <ul data-bbox="501 790 1390 869" style="list-style-type: none"> • Press Delete to remove the selected material group from the database. <div data-bbox="544 882 1366 1182" data-label="Image"> </div> <p data-bbox="679 1198 1238 1236">Figure 18: Popup Confirmation Prompt</p> <div data-bbox="501 1254 1410 1361" data-label="Text" style="background-color: #00b050; color: white; padding: 5px;">  You are asked to confirm your actions. </div> <ul data-bbox="501 1377 1342 1415" style="list-style-type: none"> • Select a <i>material group</i> that you would like to update.
<p>Materials</p>	<p>Displays a drop-down list of <i>materials</i> for the selected <i>material group</i>.</p> <p>Simply Add / Delete / Select as described above.</p>
<p>Text Values</p>	<p>Displays a list of possible <i>text values</i> for the selected <i>material</i>.</p> <p>Add / Delete as described above.</p>

 You must click the **OK** button for all your changes to the database to be saved.

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Insert Material

TS_INSERTMATERIAL

Use this command to insert **material text** into your drawing at the **specified location**.



Cut-Tools comes with a default **Materials Database** with several material groups and materials for you to choose from. You can [customize](#) it as required.

Overview

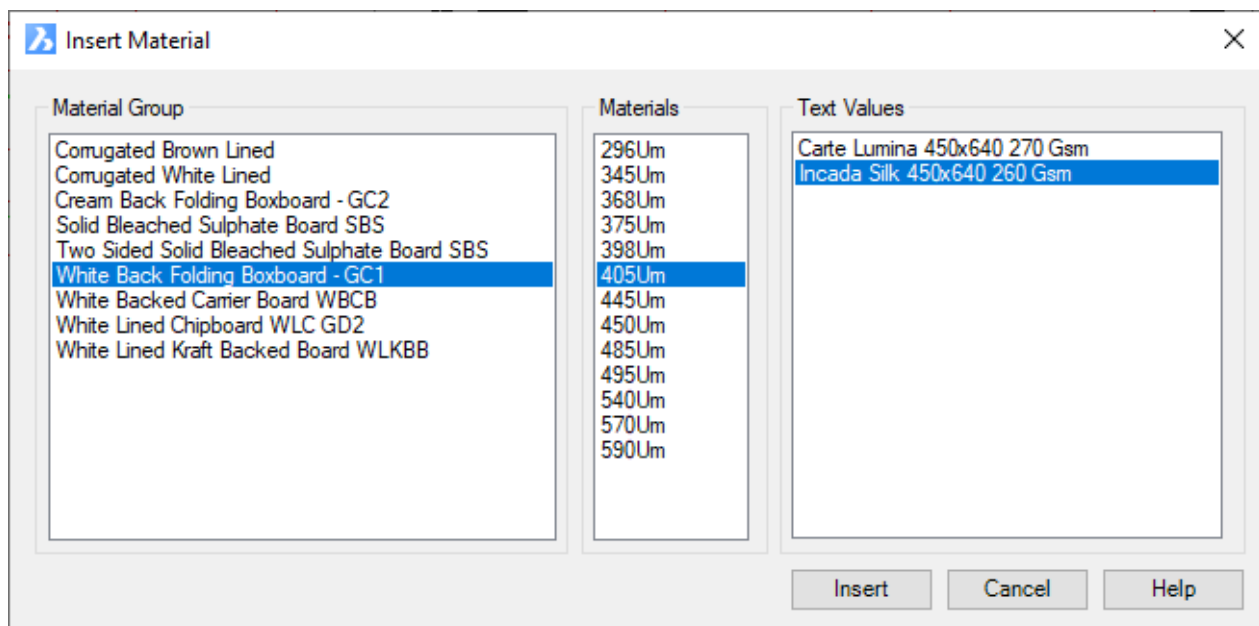


Figure 19: Insert Material Text Dialog

Setting	Description
Material Group	Displays a list of <i>material groups</i> . Select the one you would like to use.
Materials	Displays a list of <i>materials</i> for the selected <i>material group</i> . Select the one you would like to use.
Text Values	Displays a list of predefined <i>text values</i> for the selected <i>material</i> . Select the one you would like to use.

The text that is required on the drawings can be **quite complex** and it would be very easy to make **spelling mistakes** if you had to type each text value manually. It would also take **much longer** to get the task completed. Using this command addresses all of these issues.

Text Properties

At the time of writing the text entities have the following properties:

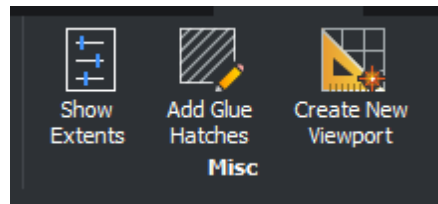
Font Name	Arial (True Type Font)
Font Size	10.0
Font Style	Italic
Layer Colour	White
Layer Name	Text

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Miscellaneous Ribbon Panel



Available Tools

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Add Glue Hatches

TS_ADDGLUEHATCHES

Add front / reverse hatch objects to selected polylines

Overview

This routine asks you to select some *Glue Boundaries* in the drawing and then it creates HATCH entities for each of the boundaries. A pop-up message is displayed at the end informing you how many HATCH entities were created for each layer.

Filtering Criteria

It uses the following *filtering criteria* when selecting the Glue Boundaries:

Filter Type	Value
Entity Type	Closed LWPOLYLINE.
Layer	<ul style="list-style-type: none"> • Glues_Front • Glues_Reverse

Hatch Properties

The HATCH entities that are created have the following properties:

Setting	Description
Layer	The same layer as the LWPOLYLINE entity (colour BYLAYER).
Elevation	0.0
Pattern	Predefined pattern ANSI31.
Pattern Angle	This depends upon the <i>layer</i> of the HATCH entity. <ul style="list-style-type: none"> • Glues_Front: 0.0. • Glues_Reverse: 90.0
Scale	2.0



Each HATCH gets associated with the *Glue Boundary*.

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Create New Viewport

TS_NEWVP

Creates a new layout with 1:1 viewport for your selected entities

Overview

The command asks you to select some entities and these will become the basis for the new *paperspace layout*. Next, it calculates the *extents* for the selection set and adds a margin of 10.0 on all sides..



The new layout is called **CutToolsLayout[n]** where *[n]* is the *number* of the layout.

Viewport

The new viewport has the following properties:

Setting	Description
Layer	<i>Viewports</i> (colour 96)
Locked	Set to <i>True</i>

Plot Settings

The command will try to setup the *plot settings* automatically for you.



The *printer configuration* **Print As PDF.pc3** needs to be in your device list.

Setting	Description
Plot area	Set to <i>Window</i>
Center on page	Set to <i>True</i>
Drawing orientation	Set to <i>Portrait</i>
Printer Configuration Name	<i>Print As PDF.pc3</i> (this should already be installed by the CAD software)



At the moment it is *impossible* to create a *custom paper size* in .PC3 files programmatically. This step will have to be done manually.

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Show Extents

TS_DISPLAYEXTENTS

Displays the width and height of entities for the selection set

Overview

The extents are displayed on the status bar:

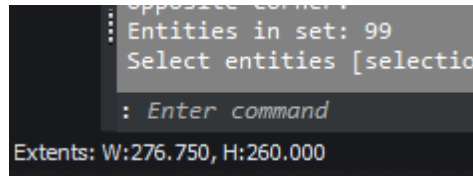


Figure 20: Display Extents on the Status Bar



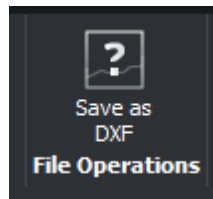
This command will ignore **RAY** and **XLINE** entities.

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File Operations Ribbon Panel



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Save to DXF

TS_SAVEASDXF

This is a handy tool you can use to export selected entities to a DXF. This command is different to the standard **DXFOUT** command because it performs the following additional tasks:

- **Moves** the origin.
- **Mirrors** the entities (optional)
- **Rotates** the entities (optional)

Overview

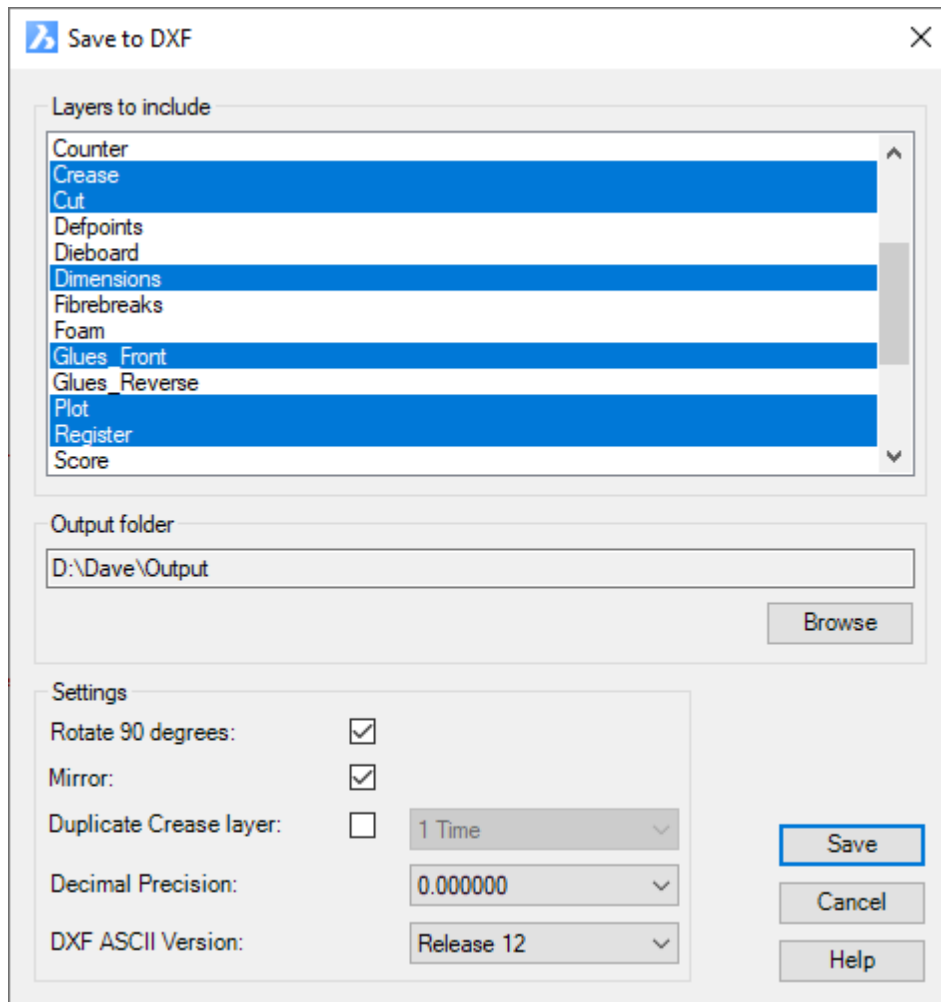
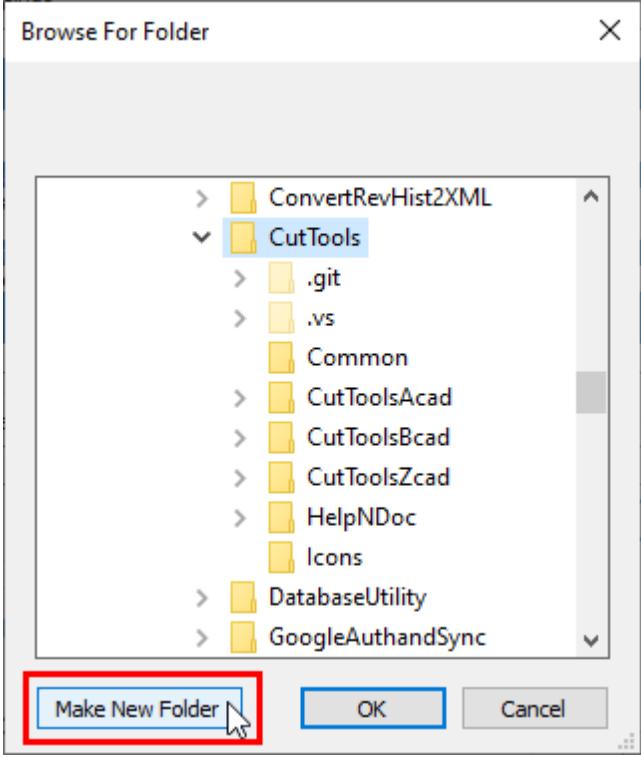
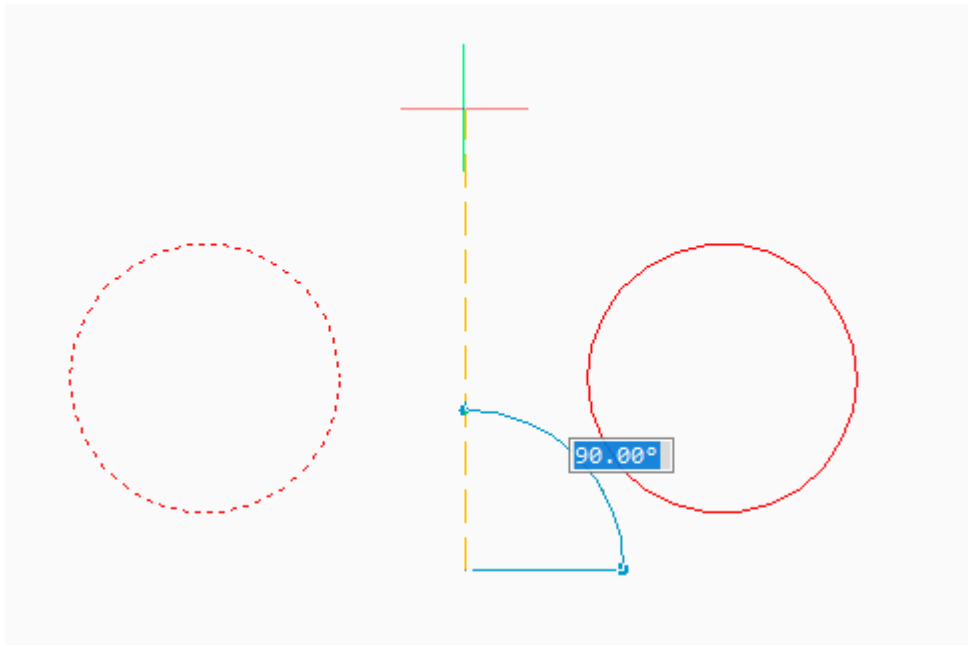


Figure 21: Save as DXF Dialog

Setting	Description
Layers to	This displays a list of all the layers found in the drawing. You can use

Setting	Description
include	standard Windows hotkeys to select one or more layers as required.
Pre-selecting Entities	The list of layers will be simplified if you <i>pre-select</i> some entities <i>before starting</i> the command. In this mode the list of layers will be reduced to those of the selection set.
Output folder	<p>Press the Browse button to display a Browse For Folder window. Then navigate to the the output folder. Press Make New Folder if required.</p>  <p style="text-align: center;">Figure 22: Browse For Folder Dialog</p>
Rotate 90 degrees	Set this option if you would like to rotate the selected entities by 90 degrees (clockwise) relative to the selected origin .
Mirror	Set this option if you would like to mirror the selected entities. They will be mirrored to the right , relative to the selected origin . Example:

Setting	Description
	 <p data-bbox="544 904 1286 943">Figure 23: Example showing position of mirror line.</p>
Duplicate Crease layer	<p data-bbox="419 972 1406 1055">Set this option and then select the number of times you would like the <i>Crease</i> layer entities duplicated. Choose from 1 to 5 times.</p> <p data-bbox="419 1106 1406 1234">The reason for the duplication of the Crease layer is for certain CNC machines. Sometimes the material is so hard that the machine needs to do the Creases twice to make sure it folds properly.</p> <p data-bbox="419 1285 1337 1361">Use this setting if you CNC machine controller doesn't have the facility to do multiple passes of the same layer.</p>
Decimal Precision	<p data-bbox="419 1393 1358 1469">Use the drop-down list to indicate how many decimal places you would like to use for the DXF file. Select from 0 to 8.</p>
DXF ASCII Version	<p data-bbox="419 1505 1374 1581">Use the drop-down to specify the version of the DXF file. Choose from:</p> <ul data-bbox="419 1637 660 2018" style="list-style-type: none"> • <i>Release 2018</i> • <i>Release 2013</i> • <i>Release 2010</i> • <i>Release 2007</i> • <i>Release 2004</i> • <i>Release 2000</i> • <i>Release 14</i> • <i>Release 13</i> • <i>Release 12</i>

How to Use

1. *Optionally* select a *set of entities* before starting the command (see [Layers to include](#)).
 2. **Start** the command.
 3. Select the **layers** you want to include.
 4. Set the **output folder**.
 5. Adjust the **other settings** as required.
 6. Press **Save**.
 7. Select the **entities** to include (it will *filter* to your chosen layers).
 8. Specify the **new origin** for the entities (this will become *0,0,0* in the new DXF file).
 9. Specify the new DXF **filename**.
-



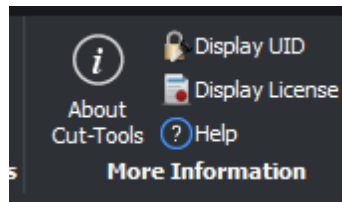
Your settings will be remembered for the next time you use the command.
The entities will be processed in the following order: *Move / Mirror / Rotate*

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About Ribbon Panel



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About Cut-Tools

TS_ABOUT

This command displays the version information and also has some hyperlinks to:

- Visit the [website](#)
- Contact me by [email](#)
- Contact by by using the [Contact Form](#) on the website

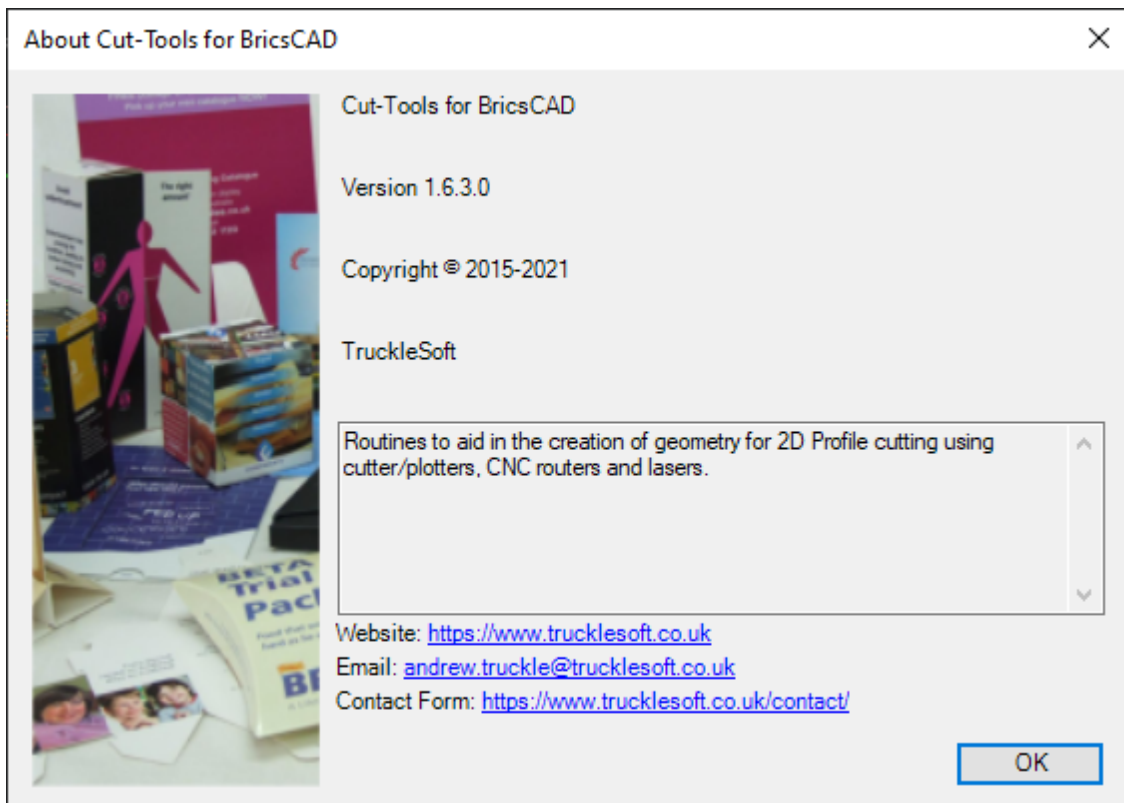


Figure 24: About Dialog

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Revision History

Version 1.7.2.1 (Released: 06-10-2021)

- ▶ The ribbon was not displaying some of the icons.
- ▶ Updated several help topics.

Version 1.7.2.0 (Released: 05-10-2021)

- ▶ Resolved an issue with the [Save to DXF](#) command where the initial view

would not be set correctly in the new DXF file where it included rotated dimensions. This issue only affected BricsCAD.

- ▶ Initial support for [Licensing](#) (new commands [TS_DISPLAYUID](#) and [TS_DISPLAYLICENSE](#)).
 - ▶ Initial support for **BricsCAD V22**.
-



Version 1.7.1.0 (Released: 30-09-2021)

- ▶ The [Save to DXF](#) command now uses the respective CAD applications **File Save** dialog instead of the .Net Framework version.
 - ▶ You can now specify the [DXF ASCII Version](#) on the **Save to DXF** dialog.
 - ▶ Added [TS_DISPLAYHELP](#) and [TS_DISPLAYONLINEHELP](#) commands to the **Menu**.
 - ▶ Added link to [Revision History](#) (online) to the **Installer**.
-



Version 1.7.0.0 (Released: 29-09-2021)

- ▶ Added **Help** button to several command dialogs.
 - ▶ Added [TS_DISPLAYHELP](#) and [TS_DISPLAYONLINEHELP](#) commands.
 - ▶ Updated help documentation.
-



Version 1.5.6.2 (Released: 21-09-2021)

- ▶ Initial implementation of the [Save to DXF](#) command.
-



Version 1.3.0.0 (Released: 25-01-2021)

- ▶ Initial implementation of the [Create New Viewport](#) command.
-



Version 1.2.9.0 (Released: 07-01-2021)

- ▶ Initial implementation of the [Draw Single Cut](#) command.
-



Version 1.2.8.0 (Released: 21-12-2020)

- ▶ Initial implementation of the [Draw Dimensions](#) command.
 - ▶ Initial implementation of the [Draw Dimensions and Register Marks](#) command.
 - ▶ Initial implementation of the [Draw Registration Marks](#) command.
-



Version 1.2.7.0 (Released: 02-10-2020)

- ▶ Initial implementation of the [Edit Materials](#) command.
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Version 1.2.6.0 (Released: 15-05-2020)

- ▶ Adjusted the [Add Glue Hatches](#) command to filter for *closed* LWPOLYLINE elements.
-














Version 1.2.5.0 (Released: 11-05-2020)

- ▶ Bug fixes to the [Add Glue Hatches](#) command.
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Version 1.2.4.0 (Released: 14-10-2019)

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-  **Version 1.2.3.0** (Released: 22-05-2019)
- ▶ Updated the [Show Extents](#) command. It now ignores XLINE and RAY entities. Any other unsupported entity is indicated with a pop-up message.
-
-  **Version 1.2.2.0** (Released: 18-05-2019)
- ▶ Cut-Tools now supports the **AutoCAD** platform.
 - ▶ Cut-Tools now supports the **ZWCAD** platform.
 - ▶ The command [Draw Multiline](#) now supports both ARC and LINE entities **Draw Multiline (ARC)** is now obsolete.
-
-  **Version 1.1.9.0** (Released: 09-05-2019)
- ▶ Initial implementation of the [About Cut-Tools](#) command which displays the latest version information and some handy hyperlinks to the website etc..
-
-  **Version 1.1.8.0** (Released: 09-05-2019)
- ▶ Updates to the [Show Extents](#) command (it now automatically *restarts* the command).
 - ▶ Bug fixes to the [Draw Border](#) command.
-
-  **Version 1.0.9.0** (Released: 21-06-2017)
- ▶ Updates to the [Draw Border](#) command (you can now specify the [width](#) and [height](#) of the border and [Align to Bottom](#)).
-
-  **Version 1.0.8.0** (Released: 06-04-2017)
- ▶ Initial implementation of the [Draw Border](#) command.
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-  **Version 1.0.7.0** (Released: 12-04-2016)
- ▶ Initial implementation of the [Draw Cut with multiple Gaps](#) command.
 - ▶ Implemented **Installer** for Cut-Tools.
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-  **Version 1.0.5.0** (Released: 18-03-2016)
- ▶ Initial implementation of the [Insert Material](#) command.
-
-  **Version 1.0.4.0** (Released: 15-12-2015)
- ▶ Initial implementation of the **Draw Multiline (ARC)** command.
-
-  **Version 1.0.3.0** (Released: 13-10-2015)
- ▶ The [Draw Multiline](#) command now supports multiple entities (*selection set*).
-
-  **Version 1.0.2.0** (Released: 28-11-2014)
- ▶ Updated BricsCAD compatibility (version 15).
-



Version 1.0.1.0 (Released: 10-07-2014)

- ▶ The [Draw Multiline](#) command now has a new setting [Make equal length at each end](#).
-



Version 1.0.0.0 (Released: 17-06-2014)

- ▶ Initial implementation of [Draw Multiline](#) command.
 - ▶ This is the first release of Cut-Tools!
-

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Contact Information



Do you need assistance in using this software? Or have you found any bugs (I hate those!)? Maybe you would like to suggest improvements or additional features. I look forward to hearing from you! Thank you for your interest in *Cut-Tools*.

Please fill out the [Contact Form](#) on the website.

Handy Links



Figure 25: The About dialog includes hyperlinks for your convenience.

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